

U.S. Naval Base, Pearl Harbor, Bulk Fuel Storage Tank Type  
(U.S. Naval Base, Pearl Harbor, Naval Station)  
(Structure Nos. S748, S749 and S750)  
Middle Tank Farm, East of North Road  
Pearl Harbor  
Honolulu County  
Hawaii

HAER  
HI  
2-PEHA  
65-

**PHOTOGRAPHS**

**WRITTEN HISTORICAL AND DESCRIPTIVE DATA**

Historic American Engineering Record  
National Park Service  
Department of the Interior  
San Francisco, California

HISTORIC AMERICAN ENGINEERING RECORDS

HAER  
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2-PELHA,  
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U.S. Naval Base, Pearl Harbor, Bulk Fuel Storage Tank Type  
(U.S. Naval Base, Pearl Harbor, Naval Station)  
(Structure Nos. S748, S749 and S750)  
HAER No. HI-46

Location: Naval Station Pearl, Middle Tank Farm, East of North Road at Quarry  
Loch and South of Makalapa Gate, Pearl Harbor, City and County of  
Honolulu, Hawaii

USGS Pearl Harbor Quadrangle, Hawaii  
7.5 minutes series (orthophotoquad)  
Universal Transverse Mercator Coordinates  
Structure S748: 4.609760.2361820 (scale-1:24,000)  
Structure S749: 4.609840.2361820 (scale-1:24,000)  
Structure S750: 4.609940.2361820 (scale-1:24,000)

Date of Construction: 1924

Engineer: Unknown

Present Owner: Naval Station, Pearl Harbor, Hawaii

Present Use: Unused

Significance: The U.S. Naval Base, Pearl Harbor was designated as a National  
Historic Landmark in 1964, due to the crucial role it played in the  
Nation's defense during the twentieth century and the calamitous  
events which occurred on December 7, 1941. As Category 3 facilities,  
Structures S748, S749 and S750 were determined to be of minor  
importance to the historical character of the National Historical  
Landmark. Structures S748, S749 and S750 were bulk fuel storage  
tanks with fuel for ships berthed at Bravo and Mike piers. Located  
approximately 260 meters from Merry Loch, these structures escaped  
the attack and continued to provide fuel to warships throughout World  
War II.

Report Prepared By: Sherwin Chang, Structural Engineer  
Navy Public Works Center, Pearl Harbor  
Project Development Branch  
Pearl Harbor, Hawaii 96860-5470

Date: January 1999

**I. Description:**

Structures S748 and S749 are 106 feet in diameter by 32 feet high, steel bulk fuel storage tanks. Each tank has a storage capacity of 50,000 barrels of fuel. While Structure S750 is a 123 feet in diameter by 34 feet high steel tank with a storage capacity of 80,000 barrels of fuel. Although there are no original drawings that show the construction of the tanks, they do not appear to have any major modifications. All three tanks were constructed by riveting 1/2 inch thick by 66 inches high by 19 feet wide steel plates. The number of rivets required on each plate is based on the pressure requirements where the lowest plate has the most rivets. The roofs on all three tanks are of the fixed type. An earthen berm surrounds each tank.

**II. History:**

Structures S748, S749 and S750 were all constructed in 1924 at a cost of \$149,747 for S748 and S749, and \$200,626 for S750. Structures S748, S749 and S750 were designed to store bulk fuel for ships docked at Pearl Harbor. Reduced fuel storage requirements eliminated the need for the bulk storage, and the deteriorated condition of the tanks and high maintenance cost prompted the abandonment of the storage tanks.

**III. Sources:**

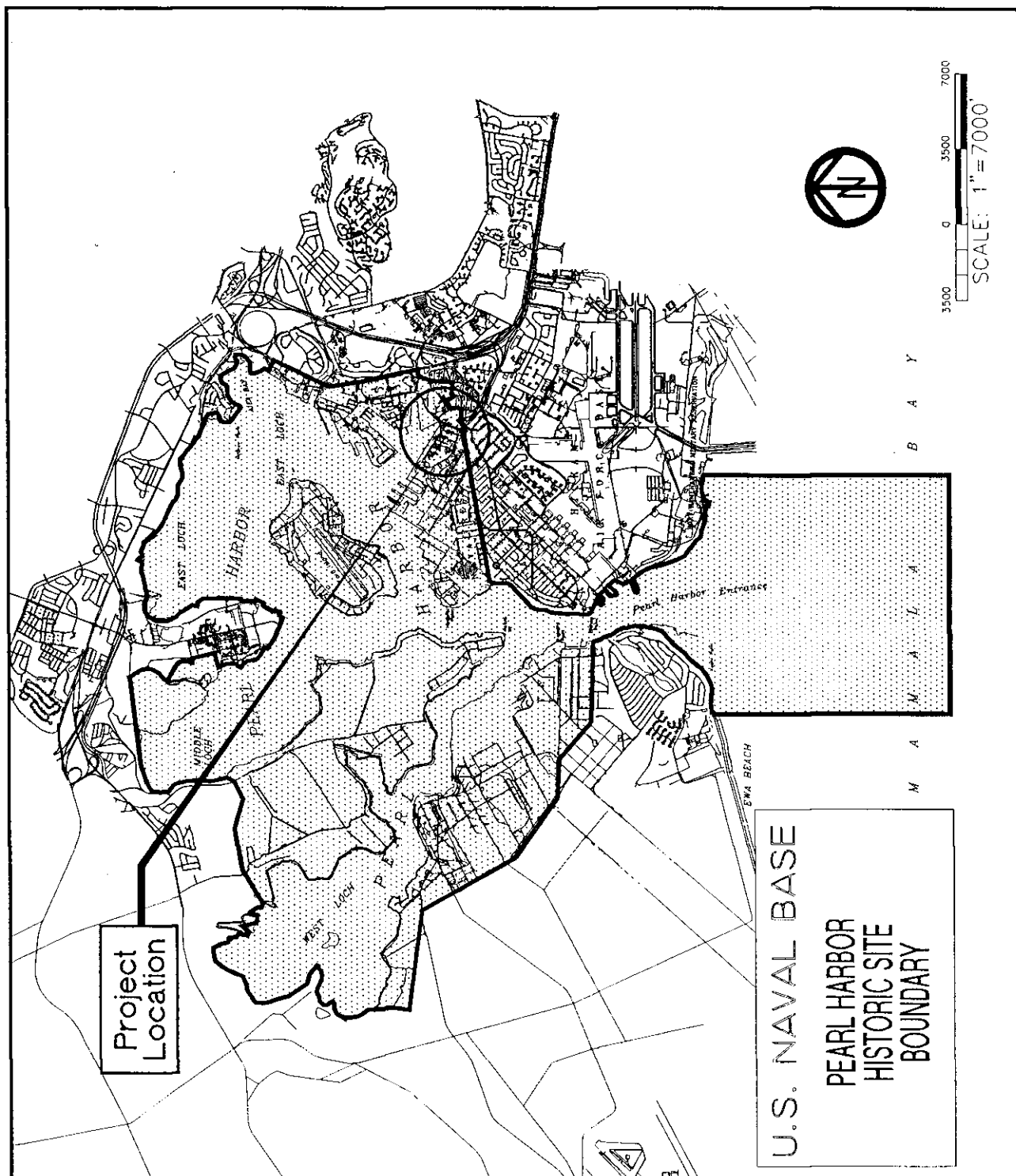
Pacific Division Drawing No. 7002359 Dated 1/31/71

Pacific Division Drawing No. 7010731 Dated 3/10/76

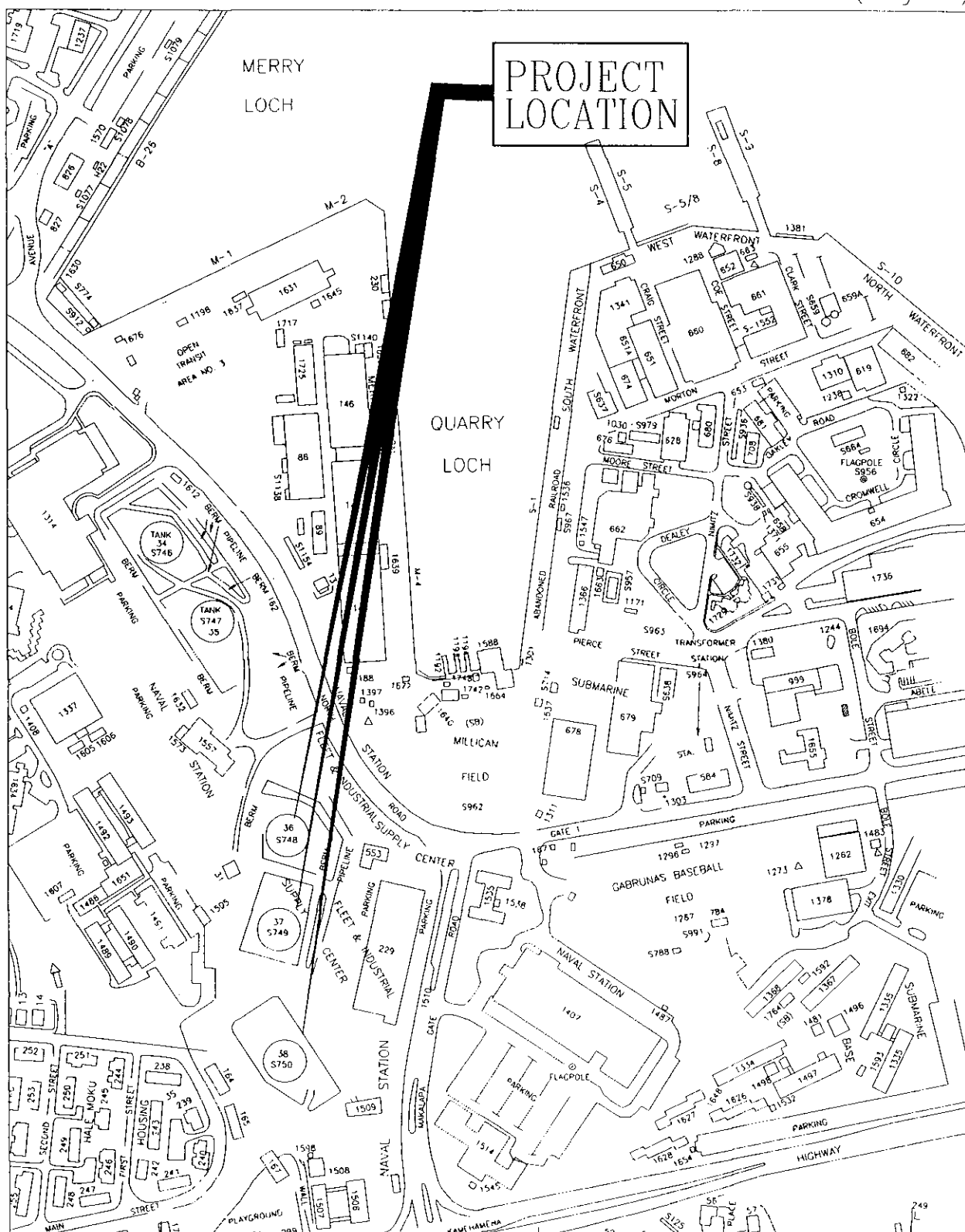
NAVFAC P-164, Detailed Inventory of Naval Shore Facilities

U.S. Naval Base, Pearl Harbor, National Historic Landmark, Historic Preservation Plan

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VICINITY MAP

SCALE: 1" = 400'

